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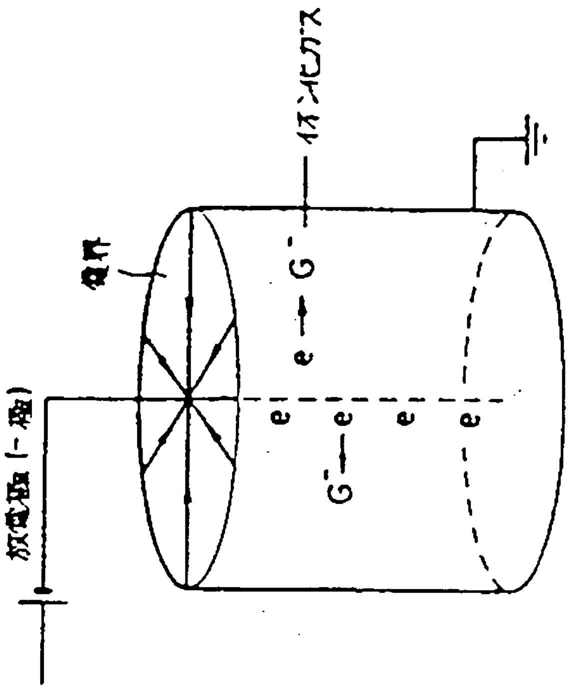

PUBLICATION NUMBER	:	63242320
PUBLICATION DATE	:	07-10-88
APPLICATION DATE	:	31-03-87
APPLICATION NUMBER	:	62076009

APPLICANT : SUMITOMO HEAVY IND LTD;

INVENTOR : TOMITA TAKESHI;

INT.CL. : B01D 53/32 B01D 53/02

TITLE : SEPARATION OF GASEOUS MIXTURE

ABSTRACT : PURPOSE: To separate the low concn. gas in a gaseous mixture, by applying an electron to the gaseous molecule having high electron adhesion in the gaseous mixture to generate negatively ionized gas and applying an electric or magnetic field to said ionized gas to trap the same by the adsorbent provided to a positive electrode.

CONSTITUTION: For example, when a gaseous mixture of N_2 and SF_6 is to be separated, a discharge electrode (negative electrode) is provided to the center of a coaxial cylindrical chamber and voltage is applied thereto to generate corona discharge. The electron generated in the vicinity of the discharge electrode is adhered to a gaseous molecule having high electron affinity such as SF_6 to form the negative ion of SF_6. This negative ion is drifted toward the positive electrode (earth) on the outer side along with the electron and trapped by the adsorbing material such as activated carbon provided to the positive electrode to be fixed thereto and the negatively ionizable gas can be selectively separated and removed.

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